

Message Text

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ACTION EUR-12

INFO OCT-01 EA-09 ISO-00 FEA-01 ACDA-10 CEQ-01 CIAE-00

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INFO AMEMBASSY ANKARA

AMEMBASSY ATHENS

AMEMBASSY BONN

AMEMBASSY BRUSSELS

AMEMBASSY CANBERRA

AMEMBASSY LISBON

AMEMBASSY LONDON

AMEMBASSY OTTAWA

AMEMBASSY PARIS

AMEMBASSY REYKJAVIK

AMEMBASSY ROME

AMEMBASSY TOKYO

AMEMBASSY WELLINGTON

USMISSION OECD PARIS UNN

USMISSION EC BRUSSELS UNN

AMEMBASSY COPENHAGEN

AMEMBASSY LUXEMBOURG

AMEMBASSY OSLO

AMEMBASSY THE HAGUE

UNCLAS USNATO 5809

E.O. 11652: N/A

TAGS: CCMS, ENRG

SUBJ: CCMS: FALL PLENARY - GEOTHERMAL ENERGY REPORT

1. US (DR. JACK VANDERRY, ERDA) REPORTED AS PILOT COUNTRY ON
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PROGRESS OF SIX PROJECTS AS FOLLOWS:

A. SMALL GEOTHERMAL POWER PLANT PROJECT HAS HELD TWO WORKSHOPS,
THE FIRST AT BERKELEY, CALIFORNIA, ON JUNE 2 AND THE SECOND AT
FURNAS, SAO MIGUEL ISLAND, THE AZORES, ON SEPTEMBER 8 THROUGH 11.

THE FIRST, A PRELIMINARY PLANNING MEETING FOR THE FOUR DAY SECOND MEETING, WAS ATTENDED BY 45 PARTICIPANTS FROM 15 COUNTRIES, AND THE SECOND BY 30 FROM SEVEN COUNTRIES (FRANCE, UK, JAPAN, NICARAGUA, PORTUGAL, US AND YUGOSLAVIA). PRINCIPAL CONCLUSION OF THE TWO CONFERENCES WAS RECOMMENDATION OF MULTILATERAL EFFORT TO DEVELOP SPECIFICATIONS FOR DESIGN OF PROTOTYPICAL 1-5 MWE POWER PLANT BY COMMITTEE OF EXPERTS FROM SEVERAL COUNTRIES WITH EXPERIENCE IN GEOTHERMAL PLANT CONSTRUCTION. THE SPECIFICATIONS ARE TO BE PUBLISHED FOR NATIONAL OR OTHER INTERNATIONAL USE. SINCE AZORES MEETING, EXPERT COMMITTEE HAS BEEN ESTABLISHED WITH REPRESENTATIVES FROM ITALY, JAPAN, NEW ZEALAND, TURKEY AND UNITED STATES. FINAL REPORT IS EXPECTED AT SPRING CCMS PLENARY.

B. INTERNATIONAL GEOTHERMAL INFORMATION EXCHANGE--PROJECT WAS DESCRIBED AT U.N. GEOTHERMAL CONFERENCE IN SAN FRANCISCO LAST MAY. AS RESULT, ALL PRESENT AND PROSPECTIVE PARTICIPANTS RECEIVED ANNOUNCEMENT OF "SECOND PHASE" (OPERATIONAL PHASE) OF PROJECT, "FIRST PHASE" BEING DEVELOPMENT OF FORMATS FOR ALL DATA STORAGE AND RETRIEVAL AND TESTING OF FORMATS WITH GEOTHERMAL DATA FROM SEVERAL COUNTRIES. PROJECT IS CONDUCTED UNDER JOINT US-ITALIAN LEADERSHIP.

C. DRY HOT ROCKS PROJECT IS MOVING ALONG WELL. UNDER TERMS OF COOPERATION SUGGESTED AT LOS ALAMOS CCMS MEETING IN SEPTEMBER, 1974, TEMPORARY ASSIGNMENTS AT LOS ALAMOS SCIENTIFIC LABORATORY (- -) HAVE BEEN MADE AVAILABLE TO QUALIFIED SCIENTISTS FROM CCMS COUNTRIES TO PARTICIPATE IN PRESENT LOS ALAMOS SCIENTIFIC LABORATORY EXPERIMENTAL PROGRAM AND APPLY RESULTS TO GEOLOGY AND ECONOMY OF THEIR OWN COUNTRIES. ONE SCIENTIST FROM FRG COMPLETED TWO-MONTH ASSIGNMENT THIS SUMMER, AND SECOND FROM FRANCE IS COMPLETING FOUR-MONTH STAY. THREE MORE VISITING SCIENTISTS ARE SCHEDULED TO JOIN IN THE LOS ALAMOS PROJECT. US WOULD WELCOME FURTHER APPLICATIONS FROM QUALIFIED SCIENTISTS TO PARTICIPATE IN THIS SIGNIFICANT UNDERTAKING.

D. RESERVOIR ENGINEERING--CCMS WORKSHOP ON RESERVOIR ENGINEERING, PHYSICS, AND MODELING, WILL BE HELD IN ROME OR PISA, ITALY, JUNE 20-25, 1976. MEETING WILL BE HOSTED BY UNCLASSIFIED

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ENTE NAZIONALE PER L'ENERGIA ELETTRICA (ENEL). CO-CHAIRMAN OF MEETING ARE PROFESSOR EZIO TONGIORGI, DIRECTOR OF INTERNATIONAL INSTITUTE FOR GEOTHERMAL RESEARCH, CNR, ITALY, AND PROFESSOR PAUL KRUGER, STANFORD UNIVERSITY, UNITED STATES. INVITATIONS WILL BE SENT TO CCMS NATIONAL COORDINATORS BEFORE END OF 1975.

E. GEOTHERMAL BRINES-SECOND WORKSHOP ON REINJECTION OF GEOTHERMAL BRINES WAS HELD AT EL CENTRO, CALIFORNIA, ON MAY 15-17, 1975. WORKSHOP INCLUDED VISIT TO US BUREAU OF RECLAMATION TEST FACILITY AT EAST MESA WHERE PRODUCTION AND REINJECTION OF BRINES ARE MONITORED BY MICROSEISMIC, EXTENSOMETER, AND TILTMETER STATIONS. APPROXIMATELY THREE MILLION GALLONS OF WASTE FLUIDS HAVE THUS FAR BEEN REINJECTED AT EAST MESA. 60 TONS PER HOUR INITIAL REINJECTION EXPERIMENT

IS BEING PLANNED AT BROADLANDS, NEW ZEALAND, AND THE DETAILS WERE REVIEWED AT THE WORKSHOP. INSTEAD OF TILTMETERS, PRECISE LEVELING BENCH MARKS WILL BE EMPLOYED TO MEASURE SUBSIDENCE. REPORTS ON INJECTION EXPERIMENTS IN OTHER PARTICIPATING COUNTRIES WERE USED AS BASIS FOR RECOMMENDING FURTHER JOINT EXPERIMENTAL PLANNING PROGRAMS. NEXT SCHEDULED MEETING IN SERIES WILL BE IN SYDNEY, AUSTRALIA, IN SEPTEMBER, 1976, FOLLOWING INTERNATIONAL GEOLOGICAL ASSOCIATION CONFERENCE.

F. NON-ELECTRIC USES OF GEOTHERMAL ENERGY--PROJECT HAS COMPLETED MAJOR STATE-OF-THE-ART REPORT CONTAINING CONTRIBUTIONS FROM ELEVEN COUNTRIES, WHICH WILL BE DISTRIBUTED AS NATO CCMS REPORT NO. 40 THIS YEAR. PREPRINT OF THE REPORT WAS PRESENTED TO U.N. GEOTHERMAL CONFERENCE IN SAN FRANCISCO IN MAY 1975 AND IS AVAILABLE FROM LAWRENCE LIVERMORE LABORATORY AS UCLR 76408. FINAL REPORT CONTENT WAS APPROVED AT CCMS NON-ELECTRIC WORKSHOP IN PARIS IN JUNE, 1975, WHERE EXTENSIVE REVIEW OF SPACE HEATING ACTIVITIES NEAR PARIS WAS CONDUCTED, AS WELL AS BROAD INTERNATIONAL REVIEW OF THE PROBLEMS AND POTENTIAL OF NON-ELECTRIC GEOTHERMAL ENERGY. LEADERSHIP OF PROJECT HAS BEEN TRANSFERRED FROM DR. J. H. HOWARD OF THE US TO DR. PAUL SANGNIER OF D.G.R.S.T., FRANCE.

2. FRANCE (PHELINE) PROVIDED INFORMATION ON TWO FRENCH GEOTHERMAL PROJECTS FOR HEATING OF 2500 AND 4000 HOUSES, RESPECTIVELY.

3. ITALY (BARBIER) CONFIRMED THAT WITH RESPECT TO INTERNATIONAL GEOTHERMAL INFORMATION EXCHANGE, SECOND--AND OPERATIONAL--PHASE WAS ABOUT TO START.
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4. TURKEY (SERDAROGLU) ANNOUNCED ITS INTENTION TO PARTICIPATE IN ALL SIX OF PILOT STUDY'S PROJECTS. TURKEY'S OWN GEOTHERMAL WORK WAS PROGRESSING SATISFACTORILY, AND TURKEY HAD BENEFITED GREATLY FROM RECENT VISITS THERE BY US (BRESEE) AND ICELANDIC GEOTHERMAL EXPERTS. BRUCE

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BRUSSELS
CANBERRA
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LONDON
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